schizophrenia

Schizophrenia is a mental health disorder classified as a psychosis, which means that it affects a person's thinking, sense of self, and perceptions. The disorder typically appears during late adolescence or early adulthood.

Signs and symptoms of schizophrenia include false perceptions called hallucinations. Imaginary voices are the most common hallucinations in schizophrenia, but affected individuals can also experience imaginary visions, smells, or feelings of being touched. Strongly held false beliefs (delusions) are also characteristic of schizophrenia. For example, affected individuals may be certain that they are a particular historical figure or that they are being plotted against or controlled by others.

People with schizophrenia often have decreased ability to function at school, at work, and in social settings. Disordered thinking and concentration, inappropriate emotional responses, erratic speech and behavior, and difficulty with personal hygiene and everyday tasks are also features of the disorder. People with schizophrenia may have diminished facial expression and animation (flat affect), and in some cases become unresponsive (catatonic). Substance abuse and suicidal thoughts and actions are common in people with schizophrenia.

Certain movement problems such as tremors, facial tics, rigidity, and unusually slow movement (bradykinesia) or an inability to move (akinesia) are common in people with schizophrenia. In most cases these are side effects of medicines given to help control the disorder. However, some affected individuals exhibit movement abnormalities before beginning drug treatment.

Some people with schizophrenia have mild impairment of intellectual function, but schizophrenia is not associated with the same types of brain changes that occur in people with dementias such as Alzheimer disease.

Psychotic disorders such as schizophrenia are different from mood disorders, including depression and bipolar disorder, which primarily affect emotions. However, these disorders can occur together. Individuals who exhibit strong features of both schizophrenia and mood disorders are often given the hybrid diagnosis of schizoaffective disorder.

Frequency

Schizophrenia is a common disorder that occurs all over the world. It affects almost 1 percent of the population, with slightly more males than females developing the disorder.

Genetic Changes

Variations in many genes likely contribute to the risk of developing schizophrenia. In most cases, multiple genetic changes, each with a small effect, combine to increase the risk of developing the disorder. The ways that these genetic changes are related to schizophrenia are not well understood, and the genetics of this disease is an active area of research. The genetic changes can also interact with environmental factors that are associated with increased schizophrenia risk, such as exposure to infections before birth or severe stress during childhood.

Deletions or duplications of genetic material in any of several chromosomes, which can affect multiple genes, are also thought to increase schizophrenia risk. In particular, a small deletion (microdeletion) in a region of chromosome 22 called 22q11 may be involved in a small percentage of cases of schizophrenia. Some individuals with this deletion have other features in addition to schizophrenia, such as heart abnormalities, immune system problems, and an opening in the roof of the mouth (cleft palate), and are diagnosed with a condition called 22q11.2 deletion syndrome.

Inheritance Pattern

The inheritance pattern for schizophrenia is usually unknown. The risk of developing schizophrenia is somewhat higher for family members of affected individuals as compared to the general public; however, most people with a close relative who has schizophrenia will not develop the disorder themselves.

Other Names for This Condition

dementia praecox

Diagnosis & Management

Formal Treatment/Management Guidelines

 National Guideline Clearinghouse: Management of Schizophrenia https://www.guideline.gov/summaries/summary/43956/management-of-schizophrenia-a-national-clinical-guideline?q=schizophrenia

Genetic Testing

 Genetic Testing Registry: Schizophrenia https://www.ncbi.nlm.nih.gov/gtr/conditions/C0036341/

Other Diagnosis and Management Resources

- MedlinePlus Encyclopedia: Mental Status Testing https://medlineplus.gov/ency/article/003326.htm
- National Institute of Mental Health (NIMH): Brain Stimulation Therapies https://www.nimh.nih.gov/health/topics/brain-stimulation-therapies/brainstimulation-therapies.shtml
- National Institute of Mental Health (NIMH): Mental Health Medications https://www.nimh.nih.gov/health/topics/mental-health-medications/index.shtml
- National Institute of Mental Health (NIMH): Psychotherapies
 https://www.nimh.nih.gov/health/topics/psychotherapies/index.shtml
- United States Department of Veterans Affairs http://www.mentalhealth.va.gov/schizophrenia.asp

General Information from MedlinePlus

- Diagnostic Tests
 https://medlineplus.gov/diagnostictests.html
- Drug Therapy https://medlineplus.gov/drugtherapy.html
- Genetic Counseling https://medlineplus.gov/geneticcounseling.html
- Palliative Care https://medlineplus.gov/palliativecare.html
- Surgery and Rehabilitation https://medlineplus.gov/surgeryandrehabilitation.html

Additional Information & Resources

MedlinePlus

- Encyclopedia: Mental Status Testing https://medlineplus.gov/ency/article/003326.htm
- Encyclopedia: Schizoaffective Disorder https://medlineplus.gov/ency/article/000930.htm
- Encyclopedia: Schizophrenia https://medlineplus.gov/ency/article/000928.htm
- Encycopedia: Hallucinations https://medlineplus.gov/ency/article/003258.htm
- Health Topic: Schizophrenia https://medlineplus.gov/schizophrenia.html

Additional NIH Resources

- National Institute of Mental Health (NIMH): Brain Stimulation Therapies https://www.nimh.nih.gov/health/topics/brain-stimulation-therapies/brain-stimulation-therapies.shtml
- National Institute of Mental Health (NIMH): Mental Health Medications https://www.nimh.nih.gov/health/topics/mental-health-medications/index.shtml
- National Institute of Mental Health (NIMH): Psychotherapies
 https://www.nimh.nih.gov/health/topics/psychotherapies/index.shtml
- National Institute of Mental Health (NIMH): Schizophrenia https://www.nimh.nih.gov/health/publications/schizophrenia-booklet/index.shtml
- National Institutes of Health: Mutated Genes in Schizophrenia Map Brain Networks https://www.nih.gov/news-events/nih-research-matters/mutated-genesschizophrenia-map-brain-networks
- National Institutes of Health: Researchers Find a Mechanism for Schizophrenia https://newsinhealth.nih.gov/issue/mar2016/capsule1

Educational Resources

- American Academy of Child and Adolescent Psychiatry: Schizophrenia in Children https://www.aacap.org/AACAP/Families_and_Youth/Facts_for_Families/FFF-Guide/Schizophrenia-In-Children-049.aspx
- American Psychiatric Association https://www.psychiatry.org/patients-families/schizophrenia
- Disease InfoSearch: Schizophrenia http://www.diseaseinfosearch.org/Schizophrenia/6442
- MalaCards: schizophrenia http://www.malacards.org/card/schizophrenia
- MentalHealth.gov
 https://www.mentalhealth.gov/what-to-look-for/psychotic-disorders/schizophrenia/
- Merck Manual Consumer Version: Schizophrenia http://www.merckmanuals.com/home/mental-health-disorders/schizophrenia-and-delusional-disorder/schizophrenia
- Orphanet: Schizophrenia http://www.orpha.net/consor/cgi-bin/OC_Exp.php?Lng=EN&Expert=3140
- World Health Organization http://www.who.int/mental_health/management/schizophrenia/en/

Patient Support and Advocacy Resources

- Brain and Behavior Research Foundation https://bbrfoundation.org/schizophrenia
- National Alliance on Mental Illness http://www.nami.org/Learn-More/Mental-Health-Conditions/Schizophrenia
- Schizophrenia and Related Disorders Alliance of America http://www.sardaa.org/
- Schizophrenia Society of Canada http://www.schizophrenia.ca/
- World Fellowship for Schizophrenia and Allied Disorders http://world-schizophrenia.org/

ClinicalTrials.gov

 ClinicalTrials.gov https://clinicaltrials.gov/ct2/results?cond=%22schizophrenia%22

Scientific Articles on PubMed

PubMed

https://www.ncbi.nlm.nih.gov/pubmed?term=%28Schizophrenia%5BMAJR%5D%29+AND+%28schizophrenia%5BTI%5D%29+AND+genetics%5Bmh%5D+AND+review%5Bpt%5D+AND+english%5Bla%5D+AND+human%5Bmh%5D+AND+%22last+1800+days%22%5Bdp%5D

OMIM

 SCHIZOPHRENIA http://omim.org/entry/181500

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